

Amendments to the Drawings:

Please enter the attached two sheets of Replacement Sheets of drawings. One sheet includes a revised FIG. 2 and the other sheet includes a revised FIG. 5.

FIG. 2 is revised to include a reference number “112” and an associated arrow near “write block 114,” and a reference number “122” and an associated arrow near “write block 126.”

FIG. 2 is further revised as follows. In the original FIG. 2, there is an arrow (which is part of Node A) connected to strobe creation circuitry 156. The revised FIG. 2 explicitly shows this arrow being coupled to other conductors that are part of node A.

FIG. 5 is revised as follows. In the original FIG. 5, there is an arrow (which is part of Node A) connected to strobe creation circuitry 156. The revised FIG. 5 explicitly shows this arrow being coupled to other conductors that are part of node A.



## REMARKS

Claims 1-21 are in the application of which claims 1, 10, and 19 are in independent form.

The Examiner is thanked for his careful attention to the specification and drawings. Various amendments (described below) are made to the specification to make them more clearly conform to the drawings. No new matter is added.

### Changes to the drawings.

Two sheets of Replacement Sheets of drawings are attached. One sheet includes a revised FIG. 2 and the other sheet a revised FIG. 5.

FIG. 2 is revised to include a reference number “112” and an associated arrow near “write block 114,” and a reference number “122” and an associated arrow near “write block 126.”

FIG. 2 is further revised as follows. In the original FIG. 2, there is an arrow (which is part of Node A) connected to strobe creation circuitry 156. The revised FIG. 2 explicitly shows this arrow being coupled to other conductors that are part of node A.

FIG. 5 is revised as follows. In the original FIG. 5, there is an arrow (which is part of Node A) connected to strobe creation circuitry 156. The revised FIG. 5 explicitly shows this arrow being coupled to other conductors that are part of node A.

References in drawings, but not in specification. The drawings are objected for including include reference characters not mentioned in the description. The specification is amended to include any such missing reference characters.

#### 1. Node A 156 and 180.

“Node A” is mentioned in several places in the specification. See, for example, page 6, lines 2-4. Strobe creation circuitry 156 and 180 are also mentioned. See, page 9, lines 12-14. In the original filed FIGS. 2 and 4, the arrow into strobe creation circuitry 156 shows that circuitry 156 is coupled to node A. To avoid clutter in the drawings, the original FIGS. 2 and 5 did not show the arrow to strobe creation circuitry 156 being explicitly coupled to other conductors that form node A. However, FIGS. 2 and 5 are revised to explicitly show strobe creation circuitry 156 being coupled to other conductors of node A. Strobe creation circuitry 180 is also connected to node A as shown in both the original and replacement FIGS. 2 and 5.

2.  $\frac{1}{2}$  cell and  $\frac{1}{4}$  cycle.

It is common to refer to  $90^\circ$  as  $\frac{1}{4}$  cycle (with  $360^\circ$  being one cycle). As filed, the specification at page 8, line 28, to page 9, line 1 states with reference to FIG. 4: "Although the desired minimum phase difference is mentioned as  $90^\circ$ , other amounts might be used such as  $270^\circ$  (that is, in 1.5 bit cells)." If  $270^\circ$  corresponds to 1.5 bit cells, then  $90^\circ$  corresponds to  $\frac{1}{2}$  bit cells. Accordingly, the paragraph at page 8, line 15 to page 9, line 2, is amended to include the following additional sentence: "As illustrated in FIGS. 3 and 4,  $90^\circ$  corresponds to  $\frac{1}{2}$  a bit cell and  $\frac{1}{4}$  cycle."

3. FIG. 10. With the amendment to the paragraph at page 11, lines 6-19, all the references in FIG. 10 are in the specification.

FIG. 10 includes the following references:

Chip 20 – mentioned at page 11, lines 8 and 11, as filed  
Chip 30 – mentioned at page 11, line 8, as filed  
Chip 20 Vcc – mentioned at page 11, lines 9 and 16, as filed  
Chip 30 Vcc – mentioned at page 11, line 17, as filed  
Chip 20 Vcc swings – added to paragraph at page 11, lines 6-19  
Chip 30 Vcc swings – added to paragraph at page 11, lines 6-19  
Transmitter 104 – mentioned at page 11, line 12, as filed  
Transmitter 244 – mentioned at page 11, line 13, as filed  
Receiver 102 – mentioned at page 11, line 17, as filed  
Receiver 246 – mentioned at page 11, line 17, as filed  
Conductor 50-1 – mentioned at page 5, line 11, as filed

4. FIG. 11. With the amendment to the paragraph at page 11, line 20 to page 12, line 12, all the references in FIG. 11 are in the specification.

FIG. 11 includes the following references:

Conductor 50-1 – mentioned at page 11, line 23, as filed  
Conductor 106 – mentioned at page 12, line 12, as filed  
Receiver 102 – mentioned at page 11, line 22, as filed  
1<sup>st</sup> Stage – mentioned at page 12, line 3, as filed  
2<sup>nd</sup> Stage – mentioned at page 12, line 9, as filed  
3<sup>rd</sup> Stage – mentioned by changing "last stage" to "third stage" at page 12, line 11

References RefHi and RefLo – mentioned at page 12, line 6, as filed  
Signals HiSel and LoSel – mentioned at page 12, line 6, as filed  
Signals Din, Doutn, Doutp, Routn, Routp, RcvOut, Nbias, and Pbias – added to the paragraph at page 11, line 20 to page 12, line 12.

Transistors M1 – M16 – added to the paragraph at page 11, line 20 to page 12, line 12.

Drawings. The drawings are objected to because they do not include “circuit 112” (page 6, line 23) and “circuit 122” (page 6, line 26). FIG. 2 is changed to include reference numbers 112 and 122. FIG. 5 already includes them.

35 U.S.C. 112, first paragraph. Claims 1-21 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement.

1. Node A 156 and 180.

“Node A” is mentioned in several places in the specification. See, for example, page 6, lines 2-4. Strobe creation circuitry 156 and 180 are also mentioned. See, page 9, lines 12-14. In the original filed FIGS. 2 and 4, the arrow into strobe creation circuitry 156 shows that circuitry 156 is coupled to node A. To avoid clutter in the drawings, the original FIGS. 2 and 5 did not show the arrow to strobe creation circuitry 156 being explicitly coupled to other conductors that form node A. However, FIGS. 2 and 5 are revised to explicitly show strobe creation circuitry 156 being coupled to other conductors of node A. Strobe creation circuitry 180 is also connected to node A as shown in both the original and replacement FIGS. 2 and 5.

2.  $\frac{1}{2}$  cell and  $\frac{1}{4}$  cycle.

It is common to refer to  $90^\circ$  as  $\frac{1}{4}$  cycle (with  $360^\circ$  being one cycle). As filed, the specification at page 8, line 28, to page 9, line 1 states with reference to FIG. 4: “Although the desired minimum phase difference is mentioned as  $90^\circ$ , other amounts might be used such as  $270^\circ$  (that is, in 1.5 bit cells).” If  $270^\circ$  corresponds to 1.5 bit cells, then  $90^\circ$  corresponds to  $\frac{1}{2}$  bit cells. Accordingly, the paragraph at page 8, line 15 to page 9, line 2, is amended to include the following additional sentence: “As illustrated in FIGS. 3 and 4,  $90^\circ$  corresponds to  $\frac{1}{2}$  a bit cell and  $\frac{1}{4}$  cycle.”

3. FIGS. 10 and 11. The specification is amended to include a description of the reference characters of FIGS. 10 and 11. Note the amendments to the paragraphs at page 11, lines

6-19 and page 11, line 20 to page 12, line 12. Note that the circuits in FIGS. 10 and 11 are given in large detail as examples of transmitters and receivers that might be used. Those skilled in the art could implement the FIGS. 10 and 11 and the inventions as claimed. The claims are not restricted to the details of FIGS. 10 and 11, so this is not an enablement issue. Indeed, if the applicants had left out FIGS. 10 and 11, there still would be enablement since block diagrams are commonly used in patents.

4. Circuits 112 and 122 are illustrated in the original FIG. 5 and are added to FIG. 2.

Applicants believe the application is in condition for allowance and respectfully request the same.

Respectfully submitted,



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